CLAIMS

1. A method for checking transmission resources of a packet-oriented communication network upon a change in topology of the packet-oriented communication network, comprising:

checking a reservation of the transmission resources by a resource manager based on topology data affecting the topology of the packet-oriented communication network;

transferring change information to the resource manager as a result of a topology change of the packet-oriented communication network;

recording in response to receipt of the change information by the resource manager, new topology data relating to the topology change of the packet-oriented communication network; and

mapping, by the resource manager, an existing reservation of the transmission resources to the changed topology based on the new topology data.

2. A method according to claim 1, further comprising temporarily entering a static resource reservation mode in the resource manager in response to the receipt of the topology change information.

3. A method according to claim 2, further comprising extending the static resource reservation mode in the resource manager by a specified period in response to receipt of additional topology change information during the static resource reservation mode.

4. A method according to claim 3, wherein the specified period is dependent on at least one of an extent of change in the topology and a size of the packet-oriented communication network.

5. A method according to claim 4, further comprising leaving the static resource reservation mode in the resource manager after at least one of said recording of the new topology data and said mapping of the existing resource reservation to the changed topology.

6. A method according to claim 5, further comprising specifically marking, by the resource manager, a resource reservation made during the static resource reservation mode.

7. A method according to claim 6, wherein reservation of the transmission resources in the static resource reservation mode is based on old topology data present before the topology change.

8. A method according to claim 6, further comprising:

rejecting, by the resource manager in static resource reservation mode, resource requests; and

allowing, by the resource manager in static resource reservation mode, resource releases independently of assignment of the transmission resources.

9. A method according to claim 6, further comprising transferring a localization specification with the topology change information to specify an area of the packet-oriented communication network affected by the topology change.

10. A method according to claim 9, further comprising:

rejecting, by the resource manager in static resource reservation mode, resource requests which affect the area specified by the localization specification, regardless of the resource reservation of the transmission resources; and

processing, by the resource manager in static resource reservation mode, resource requests which do not affect the area specified by the localization specification based on the reservation of transmission resources present before the topology change.

11. A method according to claim 10, wherein said mapping of the existing resource reservation to the changed topology includes the resource manager checking whether an overbooking of the transmission resources is occurring.

12. A method according to claim 11, further comprising, upon the resource manager upon establishing an overbooking, one of clearing a connection contributing to the overbooking by assigning the connection to another class of service to be carried via another route, and using coding with reduced resource requirements.

13. A method in accordance with claim 12, wherein said mapping of the existing reservation of resources to the changed topology includes at least one of

preferring more recent connections to older connections;

preferring voice connections to connections of other connection types;

preferring connections with at least one of a user feature-dependent priority and a service feature-dependent priority;

preferring connections with relatively low resource requirements; and

preferring connections set up outside the static resource reservation mode to connections set up during the static resource reservation mode during an assignment of transmission resources.

14. A method according to claim 13, further comprising:

recording the topology data relating to the topology of the packet-oriented communication network by a topology manager; and

transferring the topology data from topology manager to the resource manager.